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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,814	09/06/2006	Jose Carlos Ortiz Aleman	50992	7259
1609 7590 02/05/2008 ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P. 1300 19TH STREET, N.W.			EXAMINER	
			MCELHENY JR, DONALD E	
SUITE 600 WASHINGTO	00 IGTON,, DC 20036		ART UNIT	PAPER NUMBER
			2857	
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			02/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant/a)	
			Applicant(s)	
Office Asticus O		10/568,814	ORTIZ ALEMAN ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Donald E. McElheny, Jr.	2857	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as a sign of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I.  lely filed  the mailing date of this communication.  D (35 U.S.C. § 133).	
Status				
2a)	, —	action is non-final. nce except for formal matters, pro		
Dispositi	on of Claims			
5)□ 6)⊠ 7)⊠	Claim(s) 1-22 is/are pending in the application.  4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed.  Claim(s) 1.8 is/are rejected.  Claim(s) 1-22 is/are objected to Claim(s) are subject to restriction and/or	vn from consideration.		
Applicati	on Papers			
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>9/26/06</u> is/are: a) ⊠ accapplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	cepted or b) objected to by the drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a).	
Priority (	ınder 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.				
2) Notice	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) sr No(s)/Mail Date 7/19/07; 9/06/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	

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1. The preliminary amendment dated 2/21/06 has been entered.

2. The disclosure is objected to because of the following informalities:

The spacing of the lines of the written specification, including the abstract, is such as to make reading difficult. New application papers with lines 1½ or double spaced on good quality paper are required. Paragraph numbers for each paragraph of the written specification are suggested as per Rule 1.52, when submitting any substitute specification.

The specification should be carefully checked for proper English language spelling and grammar. Some foreign words appear to remain after the translation to English; see page 7, the header "ESPECIFICATIONS OF INVENTION".

The abstract of the disclosure is objected to because it makes use of language not permitted, such as "novel", in its description of applicants' invention. Correction is required. See MPEP § 608.01(b).

Appropriate correction is required.

3. Claims 1-22 are objected to because of the following informalities:

Note the claims should also be corrected to be in proper grammatical and idiomatic U.S. English language, and to correct for possible unclear points as to what is actually intended by claimed limitations. Examples follow.

Note in claim 1 "using heuristic global optimization" is not clear if this is some standard well known phrase representing some algorithm, or a desired result (i.e. optimization); an likewise for "specifically the Method of Simulated Annealing in order to obtain an image"; and also the last part of the phrase "in order to obtain an image" is

ambiguous and indefinite as to whether it is a possible step or actually required in that obtaining an image is required to occur.

Claim 2, note "of the a tank".

Note claim 4 lacks proper antecedent basis for "said interest region", as well as makes reference to "the materials or substances ... that occupy this region" which may be intended to reference such first mention of such features found in claim 2 which is not a parent claim of claim 4. Note claim 4 also states "tank)., which", thus an improper sentence.

Claim 8 states what is already stated and required in its parent claim 1, thus redundant and a duplicative claim, or making it indefinite as to what different claimed feature is intended.

For claim 14, note that this and similar claims calling for some algorithm to be used as the optimization method appears to lack a clear antecedent basis for "the optimization method", as this limitation may be intended as some portion of or the entire parent claim, or something not even claimed for that matter, and that now calling for such to be a genetic algorithm must be in addition to the use of "the Method of Simulated Annealing". This is mentioned in case applicants intended some alternative algorithm instead of one requiring annealing. Note any such change would involve restrictable and distinct inventive subject matter and not be permissible in an amendment.

Appropriate correction is required.

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4. If applicants desire to claim the benefit of a prior-filed application under 35 U.S.C. 119, a specific reference to the prior-filed application in compliance with 37 CFR 1.78(a) must be included in the first sentence(s) of the specification following the title or in an application data sheet. For benefit claims under 35 U.S.C. 120, 121 or 365(c), the reference must include the relationship (i.e., continuation, divisional, or continuation-in-part) of the applications.

If the instant application is a utility or plant application filed under 35 U.S.C. 111(a) on or after November 29, 2000, the specific reference must be submitted during the pendency of the application and within the later of four months from the actual filing date of the application or sixteen months from the filing date of the prior application. If the application is a utility or plant application which entered the national stage from an international application filed on or after November 29, 2000, after compliance with 35 U.S.C. 371, the specific reference must be submitted during the pendency of the application and within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) or sixteen months from the filing date of the prior application. See 37 CFR 1.78(a)(2)(ii) and (a)(5)(ii). This time period is not extendable and a failure to submit the reference required by 35 U.S.C. 119(e) and/or 120, where applicable, within this time period is considered a waiver of any benefit of such prior application(s) under 35 U.S.C. 119(e), 120, 121 and 365(c). A benefit claim filed after the required time period may be accepted if it is accompanied by a grantable petition to accept an unintentionally delayed benefit claim under 35 U.S.C. 119(e), 120, 121 and 365(c). The petition must be accompanied by (1) the reference required by 35

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U.S.C. 120 or 119(e) and 37 CFR 1.78(a)(2) or (a)(5) to the prior application (unless previously submitted), (2) a surcharge under 37 CFR 1.17(t), and (3) a statement that the entire delay between the date the claim was due under 37 CFR 1.78(a)(2) or (a)(5) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional. The petition should be addressed to: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If the reference to the prior application was previously submitted within the time period set forth in 37 CFR 1.78(a), but not in the first sentence(s) of the specification or an application data sheet (ADS) as required by 37 CFR 1.78(a) (e.g., if the reference was submitted in an oath or declaration or the application transmittal letter), and the information concerning the benefit claim was recognized by the Office as shown by its inclusion on the first filing receipt, the petition under 37 CFR 1.78(a) and the surcharge under 37 CFR 1.17(t) are not required. Applicant is still required to submit the reference in compliance with 37 CFR 1.78(a) by filing an amendment to the first sentence(s) of the specification or an ADS. See MPEP § 201.11.

Note no application data sheet (ADS) was found in the instant application. A petition is therefore required to comply with granting of the claim for priority.

A complete evaluation of what constitutes prior art that would be relevant against applicants' claims may not be fully made in light of the question of whether the priority claim requirements will be met.

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5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 1 and 8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Xiong et al. (6434265 B1).

Note the other cited Xiong et al. references are equally relevant to the claims.

7. Claims 1 and 8 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Castro-Pareja et al. (7280710 B1).

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Claims 1 and 8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated 8. by Zhu et al. (6775405 B1).

- The remaining prior art is cited of pertinence in also teaching various claimed 9. features.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald McElheny, Jr. whose telephone number is 571-272-2218. The examiner can normally be reached on Monday-Thursday from 7:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eliseo Ramos, can be reached on weekdays at telephone number 571-272-7925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Donald McElhery, Jr. Primary Examiner

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